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CLAIMS:

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1. (previously presented) A method of manufacturing an insulated component, the method comprising:

providing a substrate having a surface;

depositing a layer of ceramic insulating material on the substrate surface; and forming a continuous gap in a top surface of the layer of ceramic insulating material to define segments therein, the continuous gap having a width at the top surface of less than 100 microns;

further comprising forming the continuous gap by:

exposing the top surface to a first pass of laser energy having a first parameter to form the continuous gap; and

exposing the continuous gap to a second pass of laser energy having a second parameter different than the first parameter to change a geometry of the continuous gap.

- 2. (original) The method of claim 1, further comprising forming the continuous gap to have a width of less than 75 microns.
- 3. (original) The method of claim 1, further comprising forming the continuous gap to have a width of less than 50 microns.
- 4. (original) The method of claim 1, further comprising forming the continuous gap to have a depth that does not extend through an entire thickness of the layer of ceramic insulating material.
- 5. (original) The method of claim 1, further comprising forming the continuous gap using a laser engraving process.

 (previously presented) The method of claim 1, further comprising: forming a first plurality of continuous gaps to a first depth into the top surface;

forming a second plurality of continuous gaps to a second depth different than the first depth into the top surface.

- 7. (cancelled).
- 8. (previously presented) The method of claim 1, wherein the second pass of laser energy has a wider beam footprint than that of the first pass of laser energy.
- 9. (previously presented) The method of claim 1, wherein the second pass of laser energy has a pulsation frequency that is greater than that of the first pass of laser energy.
- 10. (original) The method of claim 1, further comprising forming the continuous gap using laser energy delivered through a fiber optic cable.
- 11. (original) The method of claim 1, further comprising forming the continuous gap with a laser engraving process using a lens having a focal length of at least 160 mm in order to reduce accumulation of molten material splashed onto the lens during the laser engraving process.
 - 12. (cancelled).
- 13. (original) The method of claim 1, further comprising forming a plurality of continuous gaps in the top surface at a spacing between adjacent gaps of less than 750 microns.

- 14. (original) The method of claim 13, further comprising forming the plurality of continuous gaps in the top surface at a spacing between adjacent gaps of less than 500 microns.
- 15. (original) The method of claim 13, further comprising forming the plurality of continuous gaps in the top surface at a spacing between adjacent gaps in a range of 500-750 microns.
- 16. (previously presented) The method of claim 1 further comprising: providing a substrate having a surface; depositing a first layer of ceramic insulating material on the substrate surface; forming a first plurality of continuous gaps in a top surface of the first layer; depositing a second layer of ceramic insulating material on the top surface of the first layer; and

forming a second plurality of continuous gaps in a top surface of the second layer.

17. (original) The method of claim 16, further comprising forming each of the gaps in the top surface of the second layer to have a width at the top surface of less than 100 microns.

Claims 18-35 (cancelled).

36. (previously presented) The method of claim 16, wherein the first plurality of continuous gaps defines a preferential failure interface between the layers of ceramic insulating material, and further comprising depositing the second layer of ceramic insulating material to a critical depth selected to allow the deposited ceramic insulating material to spall along the preferential failure interface in response to an expected thermal transient in order to present a fresh layer of the ceramic insulating material to a surrounding high temperature environment.

- 37. (previously presented) The method of claim 1, further comprising exposing the continuous gap to the second pass of laser energy to widen a bottom of the gap into a generally U-shaped bottom geometry.
 - 38. (cancelled).
 - 39. (cancelled).